

Notice of Allowability

Application No.

10/600,310

Examiner

Soon D. Hyun

Applicant(s)

YEH ET AL.

Art Unit

2616

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 20 June 2003.
2. ☒ The allowed claim(s) is/are 1-17.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Derrick Reid on 3/27/2007.

2. The application has been amended as follows:

In the specification:

page 2, line 27, "h ence" is changed to -- hence --.

page 14, line 27, "s rial" is change to -- serial --.

In the claims:

claim 1, lines 14 and 25 (page 22, lines 16 and 27), respectively, "transform" is changed to -- transformed --.

claim 1, line 34 (page 23, line 8), "signal" is deleted.

claim 13, line 2 (page 27, line 17), "transforms are" is replaced with -- transform is an --.

claim 13, lines 3 and 5 (page 27, lines 18 and 20), respectively, "transforms" is changed to -- transform --.

claim 13, line 4, (page 27, line 19), "transforms are" is replaced with -- transform is a --.

claim 14, line 4 (page 27, line 27), "transform" is changed to -- transformed--.

claim 14, line 10 (page 28, line 5), "th" after "from" is changed to -- the --.

claim 14, line 16 (page 28, line 11), "and" is deleted.

claim 14, line 23 (page 28, line 18), "the" after "into" is deleted.

claim 14, line 29 (page 28, line 24), "transform" is changed to -- transformed --.

claim 14, line 34 (page 29, line 2), "the" after "into" is deleted.

claim 14, line 37 (page 29, line 5), "signal" is deleted.

Reasons for Allowance

3. The following is an examiner's statement of reasons for allowance: the prior art of record fails to teach inverse transform and forward transform in a parallel architecture for an OFDM transmitter or receiver in specific combination as recited in claims 1, 10, and 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Birru (US 6,912,258) discloses a demodulator with FFT and IFFT for decoding OFDM signals.

Kim et al (US 6,952,394) discloses a transmitter for OFDM signals transformed small blocks of coded data.

Sampath (US 7,058,134) discloses a transmitter and receiver with FFT and IFFT to estimate frequency domain and time domain response.

Chen et al (US 2006/0250936) discloses a method of clipping for OFDM signals with FFT and IFFT.


5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Soon D. Hyun whose telephone number is 571-272-3121. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chi H. Pham can be reached on 571-272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.


S. Hyun
3/27/2007


CHI PHAM
SUPERVISORY PATENT EXAMINER 3/29/07